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Product datasheet for KN209446

LYPLA3 (PLA2G15) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro

Symbol: LYPLA3

Locus ID: 23659

Components: **KN209446G1**, LYPLA3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGCAGCAAGAGGAACAGG
KN209446G2, LYPLA3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCCGGGAGCAGCCCCACA
KN209446D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:
pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

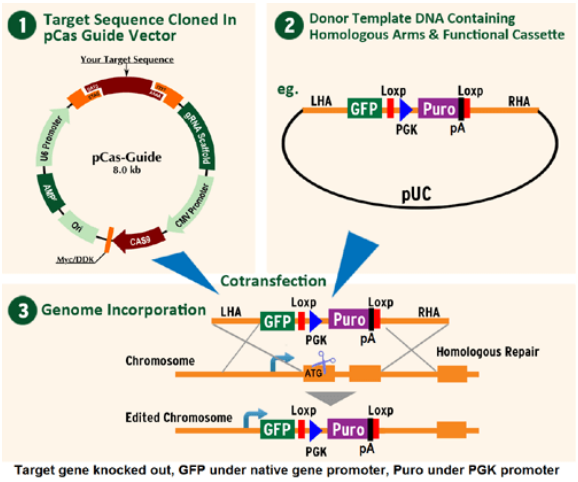
RefSeq: NM_012320, NM_001363551

UniProt ID: Q8NCC3

Synonyms: ACS; GXVPLA2; LLPL; LPLA2; LYPLA3

Summary: Lysophospholipases are enzymes that act on biological membranes to regulate the multifunctional lysophospholipids. The protein encoded by this gene hydrolyzes lysophosphatidylcholine to glycerophosphorylcholine and a free fatty acid. This enzyme is present in the plasma and thought to be associated with high-density lipoprotein. A later paper contradicts the function of this gene. It demonstrates that this gene encodes a lysosomal enzyme instead of a lysophospholipase and has both calcium-independent phospholipase A2 and transacylase activities. [provided by RefSeq, Jul 2008]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter